

# Claims

- [c1] 1. A bicycle information processing apparatus operated by power from a power supply that is attachable to a bicycle, wherein the apparatus comprises:  
a memory for storing information related to the bicycle;  
an information processing unit that accesses the memory and processes information stored in the memory; and  
a power supply sensor that detects an ability of the power supply to supply power so that the memory may be accessed without damaging information stored therein.
- [c2] 2. The apparatus according to claim 1 wherein the information processing unit accesses the memory only when the power supply sensor detects that the power supply is capable of supplying power so that the memory may be accessed without damaging information stored therein.
- [c3] 3. The apparatus according to claim 1 further comprising an information display for displaying information processed by the information processing unit.
- [c4] 4. The apparatus according to claim 1 wherein the power supply sensor comprises a voltage sensor.

- [c5] 5. The apparatus according to claim 4 further comprising a power storage element that stores power from the power supply, wherein the voltage sensor senses a voltage of the power storage element.
- [c6] 6. The apparatus according to claim 5 wherein the information processing unit accesses the memory only when the voltage sensor detects that the power storage element is capable of supplying power so that the memory may be accessed without damaging information stored therein.
- [c7] 7. The apparatus according to claim 1 further comprising a first housing that houses the memory, the information processing unit and the power supply sensor.
- [c8] 8. The apparatus according to claim 7 further comprising an information display for displaying information processed by the information processing unit.
- [c9] 9. The apparatus according to claim 8 wherein the information display is housed within the first housing.
- [c10] 10. The apparatus according to claim 8 further comprising a second housing, wherein the information display is housed within the second housing separately from the memory, the information processing unit and the power

supply sensor.

- [c11] 11. The apparatus according to claim 7 further comprising a receiver operatively coupled to the information processing unit and structured to receive information from an information processing unit.
- [c12] 12. The apparatus according to claim 11 wherein the receiver receives first cumulative information calculated by the information processing unit.
- [c13] 13. The apparatus according to claim 12 wherein the first cumulative information comprises a total distance traveled by the bicycle.
- [c14] 14. The apparatus according to claim 12 further comprising a start input component for initiating computation of second cumulative information.
- [c15] 15. The apparatus according to claim 14 wherein the information processing unit stores the first cumulative information in the memory in response to operation of the start input component.
- [c16] 16. The apparatus according to claim 15 wherein the first cumulative information comprises a total distance traveled by the bicycle, and wherein the second cumulative information comprises travel distance of the bicycle.

- [c17] 17. A bicycle information processing apparatus operated by power from a power supply that is attachable to a bicycle, wherein the apparatus comprises:  
a memory for storing information related to the bicycle;  
an information processing unit that accesses the memory and processes information stored in the memory;  
a charge storage element that stores power from the power supply;  
a charge status sensor that senses a charge status of the charge storage element; and  
wherein the information processing unit is operatively coupled to the charge status sensor and accesses the memory in response to the charge status of the charge storage element.
- [c18] 18. The apparatus according to claim 17 wherein the information processing unit accesses the memory only when the charge storage element has a predetermined charge status.
- [c19] 19. The apparatus according to claim 18 wherein the information processing unit accesses the memory only when the charge storage element has a charge status above a predetermined level.
- [c20] 20. The apparatus according to claim 19 wherein the

charge status comprises a voltage.

- [c21] 21. The apparatus according to claim 17 further comprising an information display for displaying information processed by the information processing unit.